

Client's ref. : PAOI-CA-0271-USXX
File : 0807-10215-usf

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What Is Claimed Is:

- 1 1. A mounting assembly for fixing a main board on a
2 housing, comprising:
3 a base having a first engaging portion; and
4 a clip disposed in the base slidably in a first direction
5 and a second opposite direction, wherein when moving
6 in the first direction, the clip fixes the main board,
7 and in the second direction, releases the main board;
8 the clip comprising :
9 a second engaging portion engaging the first engaging
10 portion to limit the clip to only the first
11 direction; and
12 an actuating portion releasing the first and second
13 engaging portions, when receiving a force,
14 enabling the clip to be moved in either the first
15 direction or the second direction.
- 1 2. The mounting assembly as claimed in claim 1, wherein
2 a locating member is provided on the base to slidably dispose
3 the clip on the base.
- 1 3. The mounting assembly as claimed in claim 2, wherein
2 the locating member comprises two tracks.
- 1 4. The mounting assembly as claimed in claim 1, wherein
2 the first engaging portion comprises at least one rack with a
3 series of teeth.
- 1 5. The mounting assembly as claimed in claim 4, wherein
2 the number of racks of the first engaging portion is increased
3 or decreased to enable fine-tuning of the position of the clip.

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1 6. The mounting assembly as claimed in claim 4, wherein
2 the number of teeth of the rack is increased or decreased to
3 enable fine-tuning of the position of the clip.

1 7. The mounting assembly as claimed in claim 1, wherein
2 the first engaging portion comprises two adjacent racks with a
3 series of teeth, staggered and not overlapping, to provide
4 fine-tuning of the position of the clip.

1 8. The mounting assembly as claimed in claim 7, wherein
2 the number of racks of the first engaging portion is increased
3 or decreased to enable fine-tuning of the position of the clip.

1 9. The mounting assembly as claimed in claim 7, wherein
2 the number of teeth of the rack is increased or decreased to
3 enable fine-tuning the position of the clip.

1 10. The mounting assembly as claimed in claim 1, wherein
2 the clip comprises a holding portion to hold the main board.

1 11. The mounting assembly as claimed in claim 10, wherein
2 the holding portion comprises a recess to receive the main board.

1 12. The mounting assembly as claimed in claim 10, wherein
2 the holding portion holds the main board at a predetermined
3 height to maintain a distance between the main board and the
4 housing of the electronic device.

1 13. The mounting assembly as claimed in claim 1, wherein
2 the first direction is a direction in which the clip fixes the
3 main board.

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1 14. The mounting assembly as claimed in claim 1, wherein
2 the second engaging portion comprises a plurality of hooks.

1 15. The mounting assembly as claimed in claim 1, wherein
2 the second engaging portion comprises a plurality of teeth.

1 16. The mounting assembly as claimed in claim 1, wherein
2 the first and second engaging portions are deflected in opposite
3 directions.

1 17. The mounting assembly as claimed in claim 1, wherein
2 the actuating portion releases the first and second engaging
3 portions by raising the second engaging portion, enabling the
4 clip to be moved in either the first direction or the second
5 direction.

1 18. The mounting assembly as claimed in claim 1, wherein
2 the second direction allows separation the main board and the
3 electronic device.

1 19. A mounting assembly for fixing a main board on a
2 housing of an electronic device, comprising:
3 a base having a first engaging portion and a locating
4 member; and
5 a clip disposed in the base slidably in a first direction
6 and a second opposite direction, wherein when moving
7 in the first direction, the clip fixes the main board,
8 and in the second direction, releases the main board,
9 the locating member provided on the base to slidably
10 dispose the clip on the base;
11 the clip comprising :

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12 a second engaging portion engaging the first engaging
13 portion to limit the clip to only the first
14 direction; and
15 an actuating portion releasing the first and second
16 engaging portions, which, when receiving force,
17 enables the clip to be moved in either the first
18 direction or the second direction.

1 20. The mounting assembly as claimed in claim 19, wherein
2 the first engaging portion comprises at least one rack with a
3 series of teeth.

1 21. The mounting assembly as claimed in claim 20, wherein
2 the number of racks of the first engaging portion is increased
3 or decreased to enable fine-tuning of the position of the clip.

1 22. The mounting assembly as claimed in claim 20, wherein
2 the number of teeth of the rack is increased or decreased to
3 enable fine-tuning of the position of the clip.

1 23. The mounting assembly as claimed in claim 19, wherein
2 the first engaging portion comprises two adjacent racks with a
3 series of teeth, staggered and not overlapping, to provide
4 fine-tuning of the position of the clip.

1 24. The mounting assembly as claimed in claim 23, wherein
2 the number of racks of the first engaging portion is increased
3 or decreased to enable fine-tuning of the position of the clip.

1 25. The mounting assembly as claimed in claim 23, wherein
2 the number of teeth of the rack is increased or decreased to
3 enable fine-tuning of the position of the clip.

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1 26. The mounting assembly as claimed in claim 19, wherein
2 the locating member comprises two tracks.

1 27. The mounting assembly as claimed in claim 19, wherein
2 the clip comprises a holding portion to hold the main board when
3 the clip moves in the first direction.

1 28. The mounting assembly as claimed in claim 27, wherein
2 the holding portion comprises a recess to receive the main board.

1 29. The mounting assembly as claimed in claim 27, wherein
2 the holding portion holds the main board at a predetermined
3 height to maintain a distance between the main board and the
4 housing of the electronic device.

1 30. The mounting assembly as claimed in claim 19, wherein
2 the first direction is a direction in which the clip fixes the
3 main board.

1 31. The mounting assembly as claimed in claim 19, wherein
2 the second engaging portion comprises a plurality of hooks.

1 32. The mounting assembly as claimed in claim 19, wherein
2 the second engaging portion comprises a plurality of teeth.

1 33. The mounting assembly as claimed in claim 19, wherein
2 the first and second engaging portions are deflected in opposite
3 directions.

1 34. The mounting assembly as claimed in claim 19, wherein
2 the actuating portion releases the first and second engaging
3 portions by raising the second engaging portion, enabling the

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4 clip to be moved in either the first direction or the second
5 direction.

1 35. The mounting assembly as claimed in claim 19, wherein
2 the second direction allows separation the main board and the
3 electronic device.

1 36. A mounting assembly to secure a main board in a housing
2 of an electronic device, the main board comprising a edge
3 contacting the mounting assembly, the mounting assembly
4 comprising:
5 a base disposed on the housing of the electronic device;
6 and
7 a clip disposed in the base slidably in a first direction
8 and a second opposite direction, wherein when moving
9 in the first direction, the clip fixes the main board,
10 and in the second direction, releases the main board,
11 and an acute angle is formed between the first and
12 second directions and the edge.

1 37. The mounting assembly as claimed in claim 36, wherein
2 the clip comprises a body and an actuating portion, the body
3 slidably moving in the base and the actuating portion pivoting
4 with the body.

1 38. The mounting assembly as claimed in claim 37, wherein
2 the body of the clip comprises two flanges extending from both
3 sides of the body, and the clip slides in the base via the two
4 flanges.

1 39. The mounting assembly as claimed in claim 37, wherein
2 the base comprises a first engaging portion and the clip

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3 comprises a second engaging portion connected to the actuating
4 portion, the first engaging portion engages the second engaging
5 portion to limit the clip to only the first direction, and the
6 actuating portion releases the first and second engaging
7 portions, enabling the clip to be moved in either the first
8 direction or the second direction.

1 40. The mounting assembly as claimed in claim 39, wherein
2 the first engaging portion comprises at least one rack with a
3 series of teeth.

1 41. The mounting assembly as claimed in claim 39, wherein
2 the first engaging portion comprises two adjacent racks with a
3 series of teeth, staggered and not overlapping, to provide
4 fine-tuning of the position of the clip.

1 42. The mounting assembly as claimed in claim 39, wherein
2 the second engaging portion comprises a hook.

1 43. The mounting assembly as claimed in claim 39, wherein
2 the body comprises a hole, and the actuating portion comprises
3 a tab engaging the hole to prevent the first and second engaging
4 portions from separating.

1 44. The mounting assembly as claimed in claim 36, wherein
2 the base comprises an obstacle to prevent the clip and the base
3 from separating.

1 45. The mounting assembly as claimed in claim 44, wherein
2 the obstacle comprises a wedge-shaped block.

1 46. The mounting assembly as claimed in claim 36, wherein
2 the base comprises a locating member to secure the clip thereon.

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1 47. The mounting assembly as claimed in claim 46, wherein
2 the locating member comprises two tracks.

1 48. The mounting assembly as claimed in claim 36, wherein
2 the clip comprises a first supporting portion abutting the main
3 board.

1 49. The mounting assembly as claimed in claim 48, wherein
2 the clip further comprises a second supporting portion fixed to
3 the main board.

1 50. The mounting assembly as claimed in claim 49, wherein
2 the first supporting portion comprises a ramp facing the
3 locating member, and the ramp contacts the edge of the main board
4 when the clip is fixed the main board.

1 51. The mounting assembly as claimed in claim 49, wherein
2 the first supporting portion comprises a plurality of ribs
3 facing the locating member, the surfaces of the ribs
4 constituting a ramp.

1 52. The mounting assembly as claimed in claim 36, wherein
2 the base comprises a stem separating the base from the housing
3 of the electronic device.

1 53. The mounting assembly as claimed in claim 36, wherein
2 the base is rectangular and comprises a first engaging portion
3 disposed thereon.

1 54. The mounting assembly as claimed in claim 53, wherein
2 the base further comprises two locating members disposed on both

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3 sides of the base, with the first engaging portion disposed
4 therebetween.

1 55. The mounting assembly as claimed in claim 54, wherein
2 the base further comprises a stem disposed at one end of the base
3 separating the base from the housing of the electronic device.